: 412 X-TUBE INST,LOW NARROW FWD

Thursday, 3/13/2008 1:02:15 PM

User

Kim Johnston

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

S.O. No. :

Estimate Number

: 13209

P.O. Number

Prsht Rev.

This Issue : 3/13/2008

: NC

First Issue Previous Run

: // : 38012

: LANDING GEAR Type

Part Number **Drawing Number**

Drawing Name

: D412664105TRN - D412-664-145 REV C

Project Number

: N/A : C

Drawing Revision

Material

Due Date

: 3/28/2008

Qty:

1 Um:

Each

Checked & Approved By

Comment

Written By

: Est Rev:A

New Issue 08-03-06 DD verified by:ec

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

D6019128

Crosstube Material

Comment: Qty.:

1.0000 Each(s)/Unit

Total:

1.0000 Each(s)

Pick:

Qty Part number Description Batch

1 D6019-128 Crosstube 832310

Check OD = 2.7500"; ID =

08.03.2 V

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2.0

MORI SEIK

MORI SEIKI CNC LATHE LARGE





Comment: MORISEIKI

1-Fill tube with sand & install plugs DT8534 on both ends as per Folio FA689

2-Turn first side as per Folio FA689

3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-145.

3.0

INSPECT ALL DIM TO DIM SHEET



Comment: INSPECT ALL DIM TO DIM SHEET

4.0

MORI SEIKI

MORI SEIKI CNC LATHE LARGE



Comment: MORI SEIKI CNC LATHE LARGE

1-Turn second side as per Folio FA689

J.F/a.m 08.03.240

2-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-145

3- Remove sand and plugs

Dart Aeros	pace Ltd
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W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
											
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D. 4 N.											

Part No:	_ PAR #:	Fault Category:	NCR: Y	es No	DQA:	Date:
			Q/	\: N/C (Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE OTED		Description of NC	Corrective Action Section B			Verification	A =======				
DATE S		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
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Tips Tips	1	\$. 5.									

NOTE: Date & initial all entries

H:\fFORMS\Quality,Assurance\approved QA\NCRWO RevD

Date: Thursday, 3/13/2008 1:02:15 PM User: Kim Johnston **Process Sheet** Drawing Name: 412 X-TUBE INST, LOW NARROW FWD Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664105TRN Job Number: 38013 Job Number: Description: Seq. #: **Machine Or Operation:** 4-Scribe part # and batch # using vibrating stylus as per Dwg D412-664-145 Inside of Cuff(Donot engrave on outside of tube) 5.0 QC1 INSPECT ALL DIM TO DIM SHEET 08.03.24(1) ALL DIM TO DIM SHEET Comment: INSPEC SECOND CHECK 6.0 Comment: SECOND CHECK LANDING GEAR RESOURCE 1 7.0 Comment: LANDING GEAR RESOURCE 1 1-Polish entire outside surface of crosstube Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION 9.0 POWDER COAT/CHEMICAL CONVERSION PACKAGING RESOURCE #1 10.0 Comment: HAND FINISHING RESOURCE #1 Identify and stock in kanban rack Location: 11.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

Page 2

W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
							, ,			
Part No		PAR #: Fault Category: N	CR: Yes	s No DQA	۸:	Date:	 			

QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
DATE	1	Description of NC		Corrective Action Section B		Verification	Approval	Approval			
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
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		,									

NOTE: Date & initial all entries



DESIG	" P	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED #//	APPROVED A	DRAWING NO. REV. C
	Alt	All	D412-664-145 SHEET 1 OF 3
DATE		· · · · · · · · · · · · · · · · · · ·	TITLE SCALE
07.0	3.29		CROSSTUBE ASS'Y (412 LOW-N FWD) NTS
Α		06.12.21	NEW ISSUE
В		07.03.01	CHG RUBBER CUSHION
С		07.03.29	CHG CLAMP & RUBBER CUSHION LGTH.

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SUBJECT TO AMENDMENT

WITHOUT NOTICE

RELEASED 07.04.240

PARTS LIST:

Qty	Part Number	Description
Х	D412-664-145	CROSSTUBE ASSEMBLY (412 LOW-NARROW FWD)
1	D6019-128	CROSSTUBE
1	D2856-250-842	ABRASION STRIP
2	D2893-1	SUPPORT
1	D3189-3	CHAFING SHIELD
4	D3595-063-450	RUBBER CUSHION
2	MS21920-24	CLAMP
4	MS21920-25	CLAMP (OR MS21920-26)
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

MATERIAL: MANUFACTURED FROM D6019-128

FINISHED LENGTH = 124.48±0.020 (BEFORE BENDING/TRIMMING)

FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR D3189-3 CHAFING SHIELD AND SOULABLE BUN-OFF PART IS SYMMETRIC BUN-OFF PART IS SYMETRIC BUN-OFF PART IS SYMETRIC BUN-OFF PART IS SYMETRIC BUN-OFF PART IS SYMETRIC BUN-OFF PART IS S

RUN-OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.

LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.

INSTALL D2856-XXX-YYY ABRASION STRIPS WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.

10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

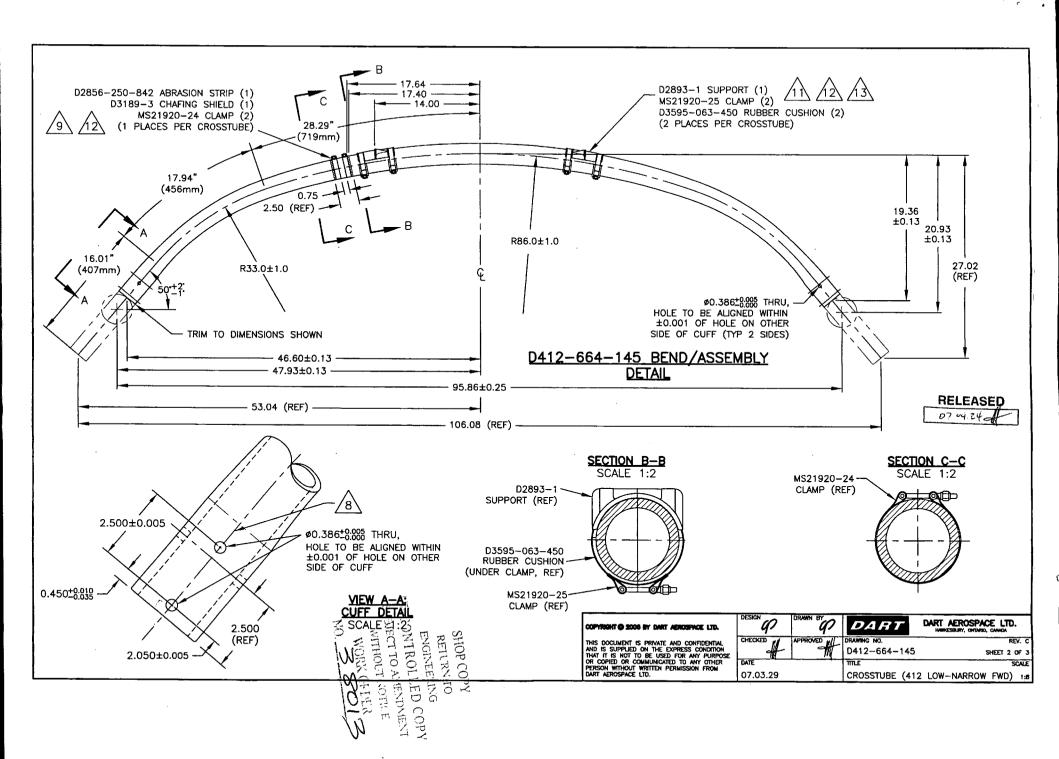
11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

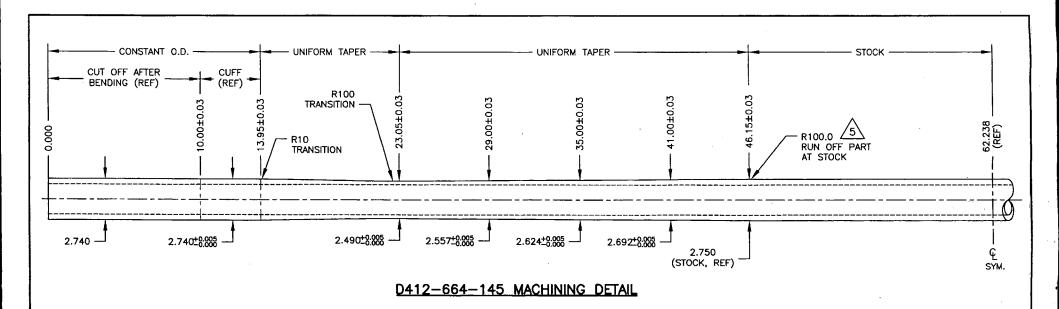
12) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE SUPPORT.

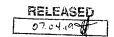
13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

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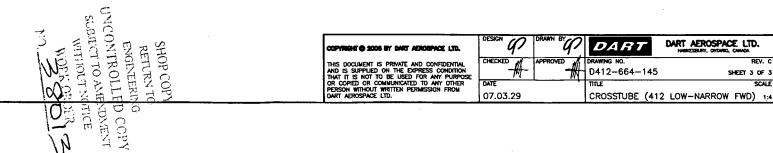




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TARTA EDOCRACE LTD	Work Order: 38012
DART AEROSPACE LTD	
11 (14)	Low Narmy Part Number: 04/2-664-105
Description: Cross to be Assembly 6-4/2	LOW MANNEY EWY)
/	Page 1 of 1
Inspection Dwg: 0412 664 14 Rev: C	

FIRST ARTICLE INSPECTION CHECKLIST

_ i	First Article Fig			Tototype			
Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments		
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1.335							
4,000	2.629	-	ļ				
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Measured by: Q.m/J.F.	Audited by:	Prototype Approval:	
measured by: U.m/JT		Date:	-
Date: 08 03 34	Date: 08/03/27		
100 03.2		- I D - i and	hy Approved

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Rev	Date	Change	KJ/RF
Α		New Issue	



